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## NOTICE OF ALLOWANCE AND FEE(S) DUE

APPLIED MATERIALS, INC. c/o SNR DENTON US LLP P.O. BOX 061080 CHICAGO, IL 60606-1080 EXAMINER
BERMAN, JACK I

ART UNIT PAPER NUMBER
2881

DATE MAILED: 06/23/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,758	06/20/2008	Aviram Tam	40006317-0087-002	2213

TITLE OF INVENTION: MEASUREMENT SYSTEM AND A METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/23/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED.</u> SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

#### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

appropriate. All further of andicated unless correcte maintenance fee notificat	correspondence includired below or directed others.	ng the Patent, advance of the Patent, advance of the Patent, advance of the Patent advan	orders and notification o  (a) specifying a new cor	f maintenance fees wirespondence address;	ill be mailed to the curren and/or (b) indicating a sep	t correspondence address as arate "FEE ADDRESS" for
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APPLIED MAT c/o SNR DENTO P.O. BOX 06108 CHICAGO, IL 6	30		I S a tr	hereby certify that this	ificate of Mailing or Trans s Fee(s) Transmittal is bein ith sufficient postage for fin Stop ISSUE FEE address O (571) 273-2885, on the d	smission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	OR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,758	06/20/2008		Aviram Tam		40006317-0087-002	2213
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	E PREV. PAID ISSUE	FEE TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/23/2011
EXAMI	INER	ART UNIT	CLASS-SUBCLASS			
BERMAN	, JACK I	2881	250-310000	_		
"Fee Address" indi PTO/SB/47; Rev 03-0. Number is required.  3. ASSIGNEE NAME AN PLEASE NOTE: Unle	ondence address (or Cha 1/122) attached. cation (or "Fee Address 2 or more recent) attached ND RESIDENCE DATA ess an assignee is ident n in 37 CFR 3.11. Comp	Indication form ed. Use of a Customer  A TO BE PRINTED ON ified below, no assignee	(1) the names of up or agents OR, alternated (2) the name of a single registered attorney of 2 registered patent a listed, no name will THE PATENT (print or	type) patent. If an assigne un assignment.	member a 2s of up to to name is 3e is identified below, the o	document has been filed for
Please check the appropri	ate assignee category or	categories (will not be p	orinted on the patent):	☐ Individual ☐ Co	rporation or other private gr	oup entity 🗖 Government
a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			<ul> <li>b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</li> <li>A check is enclosed.</li> <li>Payment by credit card. Form PTO-2038 is attached.</li> <li>The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).</li> </ul>			
a. Applicant claims	us (from status indicated SMALL ENTITY statu	us. See 37 CFR 1.27.	☐ b. Applicant is no l	onger claiming SMAL	L ENTITY status. See 37 C	CFR 1.27(g)(2).
NOTE: The Issue Fee and nature of the rest as shown by the re	l Publication Fee (if requecords of the United Sta	uired) will not be accept tes Patent and Trademar	ed from anyone other tha k Office.	n the applicant; a regis	tered attorney or agent; or t	he assignee or other party in
Authorized Signature				Date		
Typed or printed name				Registration No	0	
This collection of information application. Confident ubmitting the completed his form and/or suggestice.	ntion is required by 37 Ciality is governed by 35 application form to the ons for reducing this but	CFR 1.311. The informat U.S.C. 122 and 37 CFF USPTO. Time will var rden, should be sent to t	ion is required to obtain on the control of the collection is the collection is the collection of the chief Information Off	or retain a benefit by the estimated to take 12 m lividual case. Any con icer, U.S. Patent and T	ne public which is to file (an ninutes to complete, includi nments on the amount of ti Trademark Office, U.S. Der	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O.

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57605 75	90 06/23/2011	EXAMINER			
APPLIED MATERIALS, INC.			BERMAN, JACK I		
c/o SNR DENTON US LLP					
P.O. BOX 061080			ART UNIT	PAPER NUMBER	
CHICAGO, IL 606	606-1080		2881		

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 327 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 327 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## **Privacy Act Statement**

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- 1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

	Application No.	Applicant(s)	
	10/574,758	TAM, AVIRAM	
Notice of Allowability	Examiner	Art Unit	
	JACK BERMAN	2881	
The MAILING DATE of this communication apperature.  All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is and MPEP 1308.	in this application. If not included nunication will be mailed in due cou subject to withdrawal from issue at	rse. <b>THIS</b>
<u> </u>	·	·	
<ol> <li>The allowed claim(s) is/are 1.6.7.9.10.12.13.18.19.21-23.2</li> <li>Acknowledgment is made of a claim for foreign priority una)</li></ol>	onder 35 U.S.C. § 119(a)-(der been received.  The been received in Applicate cuments have been received of this communication to find the communication.  The been received in Application of this communication to find the communication.	ion No  ed in this national stage application  le a reply complying with the require  (AMINER'S AMENDMENT or NOT)	ements
5. CORRECTED DRAWINGS (as "replacement sheets") mus		/ <b></b>	
<ul><li>(a) ☐ including changes required by the Notice of Draftspers</li><li>1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li></ul>	_	ew (PTO-948) attached	
(b) including changes required by the attached Examiner' Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the sheet in the sheet in the sheet is the sheet in the sheet in the sheet in the sheet is the sheet in the sheet in the sheet in the sheet is the sheet in t	s Amendment / Comment	the drawings in the front (not the bac	ck) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			the
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Paper No 7. ☐ Examiner'	nformal Patent Application Summary (PTO-413), b./Mail Date s Amendment/Comment s Statement of Reasons for Allowal	nce
/Jack I. Berman/			
Primary Examiner, Art Unit 2881			

The following is an examiner's statement of reasons for allowance: The prior art does not disclose a method or apparatus for generating or receiving, by a measurement system, a measurement model for a measurement area of a sample, said measurement model comprising measurement image information, reference measurement information representative of measurements to be made using the measurement model and edge information;

locating, by the measurement system, the measurement area of the sample by (i) locating a vicinity area that includes the measurement area of the sample by detecting a target and then displacing a scanning beam of a scanner from the target by a predefined displacement amount, and (ii) locating the measurement area of the sample within the vicinity area by applying image processing utilizing the measurement image information of the measurement model;

locating, by the measurement system, edges of structural features within the measurement area of the sample by searching in a proximity of reference edges defined in the edge information;

performing, by the measurement system, at least one measurement of the measurement area of the sample based on the located edges of the structural features and the reference measurement information included in the measurement model; and

either providing, by the measurement system, measurement result information to a user, or processing multiple detection signals received from a detector positioned to receive charged particles resulting from an interaction between the target measurement area of the sample and the scanning beam of charged particles and the detector is enabled to provide the multiple detection signals, based on the received charged particles, to the processor.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JACK BERMAN whose telephone number is (571)272-2468. The examiner can normally be reached on Monday-Thursday (8:30-7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jack I. Berman/ Primary Examiner, Art Unit 2881